

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 01/20/98

Date Received: 01/06/98

Project: % of Acid & Specific Gravity, PO #M59579

Date Extracted: 01/13/98

Date Analyzed: 01/14/98

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE
FOR TOTAL METALS BY
INDUCTIVELY COUPLED PLASMA (ICP)
(METHOD 6010)**

Results Reported as mg/L (ppm)

Sample ID

M59579 C Reventment

Method Blank

Analyte:

Iron

52,000

<5

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**RESULTS FROM THE ANALYSIS OF WATER SAMPLES
FOR % ACID**

Results Reported as Percent Acid by Volume

<u>Sample ID</u>	<u>% Acid</u>
M59579 A Large Tank	12
M59579 B Small Tank	6.1
M59579 C Reventment	6.0

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**RESULTS FROM THE ANALYSIS OF PRODUCT SAMPLES
FOR SPECIFIC GRAVITY
@ 15.56 °C**

<u>Sample ID</u>	<u>Specific Gravity</u>
M 59579 A Large Tank	1.28
M 59579 B Small Tank	1.17
M 59579 C Reventment	1.19

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**QUALITY ASSURANCE RESULTS
FOR TOTAL METALS BY
INDUCTIVELY COUPLED PLASMA (ICP)
(METHOD 6010)**

Laboratory Code: 801013-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Iron	mg/l (ppm)	65000	64000	16	0-20

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD
Iron	mg/l (ppm)	100	105	106	80-120	1

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**QUALITY ASSURANCE RESULTS
FOR SPECIFIC GRAVITY**

Laboratory Code: 801014-03 (Duplicate)

Analyte	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Specific Gravity@ 15.56°C	1.19	1.19	0	0-20

SAMPLE CHAIN OF CUSTODY

Send Report To:

Company ALASKAN Copper Works

Contact Gerald Thompson

Address 628 Howard

City, State, Zip, Seattle WA 98134

382-8379

FAX # (202) 382-4309

Date 1/6/98

SITE NO.

PROJECT NAME

PURCHASE ORDER #

7238

% of Acid : 5.6.

m 59579

SAMPLERS (signature)

PROJECT LOCATION

3200 6th Ave S

REMARKS

SAMPLE DISPOSAL INFORMATION



Dispose after 30 days



Return Samples



Call for Instructions

Sample #	Date/Time Sampled	Type of Sample	# of Jars	Lab Sample #	Analyses Requested
M 59579 A	1/6/98 9:00	HNO ₃	1	01	% of Acid & S.G.
SAME tank					
M 59579 B	1/6/98 9:00	HNO ₃	1	02	% of Acid & S.G.
SAME tank					
M 59579 C	1/6/98 7:00	HNO ₃	1	03	% of Acid & S.G. & F
Reventment					

SIGNATURE

PRINT NAME

COMPANY

Date _____

Time:

Relinquished by:



Received by:

Relinquished by:

Received by:

Gerald A. Thompson

ACW

Date
1/6/58

Time
1:24 p.m.

S. Oborn

F&B, Inc.

11/6/98

1125

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Jensen, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

January 20, 1998

DUPLICATE COPY

INVOICE #98ACU0120-2

Accounts Payable
Alaskan Copper Works
628 South Hanford St.
Seattle, WA 98134

RE: Project % of Acid & Specific Gravity, PO #M59579: Results of testing
requested by Gerry Thompson for material submitted on January 6, 1998.

1 sample analyzed for Iron by Method 6010 @ \$35 per sample	\$ 35.00
3 samples analyzed for % Acid by @ \$25 per sample	75.00
3 samples analyzed for Specific Gravity @ \$25 per sample	<u>75.00</u>
Amount Due	\$ 185.00

FEDERAL TAX ID # (b) (6)

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3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

January 20, 1998

**Gerry Thompson, Project Manager
Alaskan Copper Works
628 South Hanford St.
Seattle, WA 98134**

Dear Mr. Thompson:

Included are the results from the testing of material submitted on January 6, 1998 from your % of Acid & Specific Gravity, PO #M59579 project.

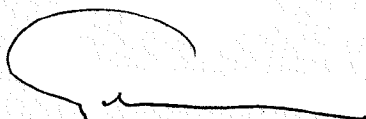
We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



**Kurt Johnson
Chemist**



**Enclosures
ACU0120R.DOC**